

# ABSTRACT OF THE DISCLOSURE

An actuator unit is driven with a voltage pulse supplied from a driver IC. The actuator unit can take two states of a first state wherein the volume of a pressure chamber is  $V_1$ , and a second state wherein the volume of the pressure chamber is  $V_2$  larger than  $V_1$ . A state of the actuator unit changes from the first state to the second state and then to the first state again so that ink is ejected through a nozzle connected to one end of the pressure chamber. A pulse width  $T_w$  of the voltage pulse to be supplied to the actuator unit is shorter than a pulse width  $T_{max}$  at which a maximum ejection speed of ink ejected from the nozzle is obtained. Thus, with simplifying a waveform of the voltage pulse, two of large and small ink droplets can be successively ejected in the order of the large and small ink droplets.